

WHAT IS CLAIMED IS:

1. A goggle comprising a lens, a body structure supporting the lens and defining therewith an ocular chamber for extending over the eyes of a wearer, wherein the body structure further defines: an exhalation chamber for extending over at least one of the nose and mouth of a wearer and an inlet chamber at least part of which is arranged to be in front of the exhalation chamber in use; the goggle further comprising a fan located in the inlet chamber, and air deflection means located between the inlet chamber and the exhalation chamber and arranged to deflect air from the fan upwards into the ocular chamber.
2. A goggle according to claim 1, wherein the air deflection means is constructed and arranged to direct air across the inner surface of the lens in an upward direction.
3. A goggle according to claim 1, wherein the body structure defines an ocular chamber outlet at the upper side of the ocular chamber through which air entering the ocular chamber from the inlet chamber can escape from the ocular chamber.
4. A goggle according to claim 2, wherein the body structure defines an ocular chamber outlet at the upper side of the ocular chamber through which air entering the ocular chamber from the inlet chamber can escape from the ocular chamber.
5. A goggle according to claim 3, wherein the outlet has a covering thereover having apertures therethrough which are no greater than 30 mm^2 , so as to prevent debris from entering the ocular chamber.
6. A goggle according to claim 1, wherein the inlet chamber has an inlet through which air can enter the inlet chamber from the exterior of the goggle.
7. A goggle according to claim 6, wherein the inlet is formed in the front of the goggle.
8. A goggle according to claim 1, wherein the fan is positioned in a part of the inlet chamber in front of the exhalation chamber.

9. A goggle according to claim 1, wherein the fan is positioned so as to be, while in use, in front of the wearer's nose or mouth.

10. A goggle according to claim 1, wherein the exhalation chamber has at least one exhaled air outlet for exhaled air.

11. A goggle according to claim 10, wherein the inlet chamber has an inlet through which air can enter the inlet chamber from the exterior of the goggle, and wherein the exhaled air outlet is arranged to be, while in use, below the inlet.

12. A goggle according to claim 10, wherein the inlet is formed in the front of the goggle, and wherein the exhaled air outlet is arranged to be, while in use, below the inlet.

13. A goggle according to claim 10, wherein the exhaled air outlet is arranged to direct exhaled air downward away from the inlet chamber.

14. A goggle according to claim 11, wherein the exhaled air outlet is arranged to direct exhaled air downward, away from the inlet chamber.

15. A goggle according to claim 1, wherein the deflection means partly defines a channel between the inlet chamber and the ocular chamber, the channel having an outlet which is adjacent to the lens.

16. A goggle according to claim 13, wherein the channel outlet is arranged to direct air in a direction substantially parallel to the lens so that the air flows across the inner surface of the lens.

17. A goggle according to claim 3, wherein the ocular chamber outlet is positioned adjacent to the lens so that air flowing across the lens can flow on through the ocular chamber outlet.

18. A goggle according to claim 1, wherein the deflection means is arranged to direct the air so that it flows across the lens in a substantially laminar manner.

19. A goggle according to claim 1, wherein the air deflection means is arranged to direct the airflow in the ocular chamber to occur mostly in a region of the ocular chamber adjacent to the lens and spaced away from the wearer's face.

20. A goggle according to claim 1 and further comprising a partition between the ocular chamber and the exhalation chamber to inhibit the flow of air from the exhalation chamber to the ocular chamber.

21. A goggle according to claim 20, wherein the partition is sealed to prevent the flow of air from the exhalation chamber to the ocular chamber.

22. A goggle according to claim 20, wherein the partition defines at least one opening through which air can flow from the ocular chamber to the exhalation chamber.

23. A goggle according to claim 1, wherein the air deflection means comprises at least part of a partition between the inlet chamber and the exhalation chamber to inhibit the flow of air from the exhalation chamber to the inlet chamber.

24. A goggle according to claim 23, wherein the partition between the inlet chamber and the exhalation chamber is sealed to prevent the flow of air from the exhalation chamber to the inlet chamber.

25. A goggle according to claim 23, wherein the partition between the inlet chamber and the exhalation chamber defines at least one opening through which air can flow from the inlet chamber to the exhalation chamber.

26. A goggle comprising a lens, a body structure supporting the lens and defining an air inlet means arranged to direct air from the exterior of the goggle across an inner surface of the lens, a fan located in the air inlet means for causing air to flow through the air inlet means, and a drive system for driving the fan wherein the drive system includes a controller arranged to switch the fan repeatedly between an on state and an off state so as to control the amount of air directed across the lens, and to control the timing of the switching so that each time the fan is switched to the on state it remains in that state for at least a predetermined time to allow for air flow across the lens to reach a steady state.

27. A goggle according to claim 26, wherein the controller is arranged to vary the length of the periods for which the fan is in at least one of the on state and the off state so as to vary the amount of air flow across the lens.

28. A goggle according to claim 26, wherein the drive system includes a sensing means arranged to sense fogging of the lens, and the controller is arranged to control operation of the fan in response to a signal from the sensing means.

29. A goggle according to claim 23, wherein the drive system includes a sensing means arranged to sense a condition which will affect fogging of the lens, and the controller is arranged to control operation of the fan in response to a signal from the sensing means.

30. A goggle comprising a lens, a body structure supporting the lens and defining an air inlet means arranged to direct air from the exterior of the goggle across an inner surface of the lens, a fan located in the air inlet means for causing air to flow through the air inlet means, and a drive system for driving the fan wherein the drive system includes a sensing means arranged to sense fogging of the lens, and a controller arranged to control operation of the fan in response to a signal from the sensing means.

31. A goggle according to claim 28, wherein the sensing means includes a temperature sensor arranged to measure the temperature in a region within the goggle, close to the lens.

32. A goggle according to claim 25, wherein the sensing means includes a temperature sensor arranged to measure the temperature in a region within the goggle, close to the lens.

33. A goggle according to claim 28, wherein the sensing means includes a humidity sensor arranged to measure the humidity of air in a region within the goggle, close to the lens.

34. A goggle according to claim 26, wherein the sensing means includes a humidity sensor arranged to measure the humidity of air in a region within the goggle, close to the lens.

35. A goggle according to claim 1 and further comprising a strap formed from a piece of elastomeric material.

36. A goggle according to claim 30, wherein the strap is connected to the body structure by means of pivoting connectors.

37. A goggle according to claim 35, wherein the strap has a plurality of apertures formed therethrough.

38. A goggle according to claim 30, wherein the strap has a plurality of apertures formed therethrough.

39. A goggle according to claim 35, wherein the strap is non-adjustable.

40. A goggle according to claim 38, wherein the strap is non-adjustable.

41. A goggle according to claim 30, wherein the strap is arranged to pass around the back of a wearer's head.

42. A goggle according to claim 35, wherein the strap is arranged to pass around the back of a wearer's head.

43. A goggle according to claim 1, wherein the body structure is of a flexible construction, thereby being arranged to follow the contours of a wearer's face.